**3GPP TSG-RAN2 Meeting #106 *R2-190xxxx***

**Reno, US, 13 – 17 May 2019**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.331** | **CR** | **-** | **rev** | **-** | **Current version:** | **15.5.1** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network | **x** | Core Network |  |

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| ***Title:***  | Clarification on filters used to generate FeatureSets (38.331) |
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| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core |  | ***Date:*** | 2019-05-02 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-15 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | When invoking the procedures in 5.6.1.4 clause, the UE shall ensure that the feature set IDs and feature set combination IDs are consistent across feature sets, feature set combinations and band combinations in all three UE capability containers that the network queries with the same FreqBandList and with the same eutra-nr-only flag (where applicable). Hence, it is unclear whether consistency of feature set IDs and feature set combination IDs also applies for SRS carrier switching request. This means that if the network performs a capability request e.g. with a given FreqBandList value and including srs-SwitchingTimeRequest field, when performing a subsequent request with the same FreqBandList value but without including srs-SwitchingTimeRequest field, it may expect that feature set IDs and feature set combination IDs are consistent between former and the subsequent request.In this manner, it should be clarified that consistency of feature set IDs and feature set combination IDs also applies for SRS carrier switching request. However, to avoid confusion with future filters to be added, a general statement should be included in clause 5.6.1.4 to account that the UE shall ensure that the feature set IDs and feature set combination IDs are consistent for network queries including the same filters with the same values. |
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| ***Summary of change:*** | 5.6.1.4 Settind band combinations, feature set combinations and feature sets supported by the UE- Clarified that the UE shal ensure that consistent featureSets are reported when UECapabilityEnquiry message includes the same fields with the same values.**Impact analysis**Impacted 5G architecture options: Standalone, EN-DC Impacted functionality: UE Capability transfer Inter-operability: If the network implements the CR and the UE does not, there is no inter-operability issue, since the network will expect consistent feature set IDs and feature set combination IDs only if it includes the same values for FreqBandList, eutra-nr-only (if applicable), and SRS carrier switching request (i.e. whether srs-SwitchingTimeRequest field is present or not). If the UE implements the CR and the network does not, the network may expect consistent feature set IDs and feature set combination IDs in UE capability transfer regardless of SRS carrier switching request (i.e. whether srs-SwitchingTimeRequest field is present or not) |
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| ***Consequences if not approved:*** | It cannot be guaranteed that UE reported feature set IDs and feature set combination IDs in UE capability transfer are consistent concerning whether srs-SwitchingTimeRequest is present or not in UECapabilityEnquiry. |
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| ***Clauses affected:*** | 5.6.1.4 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **x** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

START OF CHANGES

#### 5.6.1.4 Setting band combinations, feature set combinations and feature sets supported by the UE

The UE invokes the procedures in this clause if the NR or E-UTRA network requests UE capabilities for *nr*, *eutra-nr* or *eutra*. This procedure is invoked once per requested *rat-Type* (see clause 5.6.1.3 for capability enquiry by the NR network; see TS 36.331 [10], clause 5.6.3.3 for capability enquiry by the E-UTRA network). The UE shall ensure that the feature set IDs are consistent across feature sets, feature set combinations in all three UE capability containers that the network queries with identical filter settings, i.e. *UE-CapabilityRequestFilterNR* and fields in *UECapabilityEnquiry* message (i.e. *requestedFreqBandsNR-MRDC, requestedCapabilityNR* and *eutra-nr-only* flag)as defined in TS 36.331, where applicable.

END OF CHANGES